

AMENDED IN SENATE APRIL 16, 2012
AMENDED IN SENATE MARCH 29, 2012
AMENDED IN ASSEMBLY JANUARY 13, 2012
AMENDED IN ASSEMBLY JANUARY 4, 2012
AMENDED IN ASSEMBLY MARCH 31, 2011
CALIFORNIA LEGISLATURE—2011–12 REGULAR SESSION

ASSEMBLY BILL

No. 510

Introduced by Assembly Member Bonnie Lowenthal

February 15, 2011

An act to amend Sections 115111, 115112, and 115113 of the Health and Safety Code, relating to public health, *and declaring the urgency thereof, to take effect immediately.*

LEGISLATIVE COUNSEL'S DIGEST

AB 510, as amended, Bonnie Lowenthal. Radiation control: health facilities and clinics: records.

Under existing law, the State Department of Public Health licenses and regulates health facilities and clinics, as defined. Under existing law, the Radiation Control Law, the department licenses and regulates persons that use devices or equipment utilizing radioactive materials. Under existing law, the department is authorized to require registration and inspection of sources of ionizing radiation, as defined. Existing law, commencing July 1, 2012, requires that a facility using a computed tomography (CT) X-ray system record the dose of radiation on every CT study produced. Existing law requires that the displayed dose of radiation be verified annually by a medical physicist to ensure the

accuracy of the displayed dose unless the facility is accredited. Violations of these provisions are a crime.

This bill would require the facility to record the dose of radiation on every diagnostic CT study and would exempt specified CT studies from being required to record the dose. This bill would delete the exemption for accredited facilities and would authorize a facility with an accredited CT X-ray system to elect not to annually verify the displayed dose of radiation, as specified. Because accredited facilities could now be subject to these provisions, and because a violation of these provisions is a crime, the bill would impose a state-mandated local program by expanding the scope of a crime. The bill also would require the dose to be verified for the facility's standard adult brain, adult abdomen, and pediatric brain protocols.

Existing law, commencing July 1, 2013, requires facilities that furnish CT X-ray services to be accredited by an approved organization, as specified.

This bill would eliminate the requirement that the facilities be accredited and instead would require the CT X-ray systems to be accredited by an approved organization, as specified.

Existing law, commencing July 1, 2012, requires a facility to report the discovery of certain information about an event in which the administration of radiation results in prescribed occurrences, including the CT X-ray irradiation of an area of the body other than that intended, within 5 business days of the discovery of the event, to the department and the patient's referring physician.

This bill would require instead a facility to report a CT X-ray irradiation examination that does not include the intended area of the body if specified dose values are exceeded. This bill would provide that reporting is not required if adjacent body parts are irradiated during the same treatment, unless specified dose values are exceeded. This bill would require that these reports be made within 5 business days of the discovery of a therapeutic event and within 10 business days of the discovery of a CT event.

The bill would also make technical and clarifying changes.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

This bill would declare that it is to take effect immediately as an urgency statute.

Vote: ~~majority~~^{2/3}. Appropriation: no. Fiscal committee: yes.
State-mandated local program: yes.

The people of the State of California do enact as follows:

1 SECTION 1. Section 115111 of the Health and Safety Code
2 is amended to read:
3 115111. (a) Commencing July 1, 2012, subject to subdivision
4 (e), a person that uses a computed tomography (CT) X-ray system
5 for human use shall record the dose of radiation on every diagnostic
6 CT study produced during a CT examination. CT studies used for
7 therapeutic radiation treatment planning or delivery shall not be
8 required to record the dose.
9 (b) The facility conducting the study shall send electronically
10 each CT study and protocol page that lists the technical factors
11 and dose of radiation to the electronic picture archiving and
12 communications system.
13 (c) (1) Until July 1, 2013, the displayed dose shall be verified
14 annually by a medical physicist for the facility's standard adult
15 brain, adult abdomen, and pediatric brain protocols, to ensure the
16 displayed doses are within 20 percent of the true measured dose
17 measured in accordance with subdivision (f).
18 (2) A facility that has a CT X-ray system that is accredited by
19 an organization that is approved by the federal Centers for
20 Medicare and Medicaid Services, an accrediting agency approved
21 by the Medical Board of California, or the State Department of
22 Public Health may elect not to perform the verification described
23 in paragraph (1).
24 (d) Subject to subdivision (e), the radiology report of a CT study
25 shall include the dose of radiation by either recording the dose
26 within the patient's radiology report or attaching the protocol page
27 that includes the dose of radiation to the radiology report.
28 (e) The requirements of this section shall be limited to CT
29 systems capable of calculating and displaying the dose.
30 (f) For the purposes of this section, dose of radiation shall be
31 defined as one of the following:
32 (1) The computed tomography index volume (CTDI vol) and
33 dose length product (DLP), as defined by the International

1 Electrotechnical Commission (IEC) and recognized by the federal
2 Food and Drug Administration (FDA).

3 (2) The dose unit as recommended by the American Association
4 of Physicists in Medicine.

5 (g) For purposes of this section, “CT X-ray system” means the
6 same as provided in Section 892.1750 of Title 21 of the Code of
7 Federal Regulations.

8 SEC. 2. Section 115112 of the Health and Safety Code is
9 amended to read:

10 115112. Commencing July 1, 2013, CT X-ray systems shall
11 be accredited by an organization that is approved by the federal
12 Centers for Medicare and Medicaid Services, an accrediting agency
13 approved by the Medical Board of California, or the State
14 Department of Public Health.

15 SEC. 3. Section 115113 of the Health and Safety Code is
16 amended to read:

17 115113. (a) Except for an event that results from patient
18 movement or interference, a facility shall report to the department
19 an event in which the administration of radiation results in any of
20 the following:

21 (1) Repeating of a CT examination, unless otherwise ordered
22 by a physician or a radiologist, if one of the following dose values
23 are exceeded:

24 (A) 0.05 Sv (5 rem) effective dose.

25 (B) 0.5 Sv (50 rem) to an organ or tissue.

26 (C) 0.5 Sv (50 rem) shallow dose to the skin.

27 (2) A CT X-ray irradiation examination that does not include
28 the intended area of the body by the ordering physician or a
29 radiologist if one of the following dose values are exceeded:

30 (A) 0.05 Sv (5 rem) effective dose.

31 (B) 0.5 Sv (50 rem) to an organ or tissue.

32 (C) 0.5 Sv (50 rem) shallow dose to the skin.

33 (3) CT or therapeutic exposure that results in unanticipated
34 permanent functional damage to an organ or a physiological
35 system, hair loss, or erythema, as determined by a qualified
36 physician.

37 (4) A CT or therapeutic dose to an embryo or fetus that is greater
38 than 50 mSv (5 rem) dose, that is a result of radiation to a known
39 pregnant individual unless the dose to the embryo or fetus was
40 specifically approved, in advance, by a qualified physician.

1 (5) Therapeutic ionizing irradiation of the wrong individual or
2 the wrong treatment site. Reporting is not required if adjacent body
3 parts are irradiated during the same treatment, unless they exceed
4 the values in paragraph (6) of this subdivision.

5 (6) The total dose from therapeutic ionizing radiation delivered
6 differs from the prescribed dose by 20 percent or more. A report
7 shall not be required pursuant to this paragraph in any instance
8 where the dose administered exceeds 20 percent of the amount
9 prescribed in a situation where the radiation was utilized for
10 palliative care for the specific patient. The radiation oncologist
11 shall notify the referring physician that the dose was exceeded.

12 (b) The facility shall, no later than five business days after the
13 discovery of a therapeutic event described in paragraphs (3) to (6),
14 inclusive, of subdivision (a) and no later than 10 business days
15 after discovery of an event described in paragraphs (1) to (4),
16 inclusive, of subdivision (a), provide notification of the event to
17 the department and the referring physician of the person subject
18 to the event and shall, no later than 15 business days after discovery
19 of an event described in subdivision—(a) (a), provide written
20 notification to the person who is subject to the event.

21 (c) This section shall become inoperative on the effective date
22 of the act that added this subdivision, and shall remain inoperative
23 until July 1, 2012.

24 SEC. 4. No reimbursement is required by this act pursuant to
25 Section 6 of Article XIII B of the California Constitution because
26 the only costs that may be incurred by a local agency or school
27 district will be incurred because this act creates a new crime or
28 infraction, eliminates a crime or infraction, or changes the penalty
29 for a crime or infraction, within the meaning of Section 17556 of
30 the Government Code, or changes the definition of a crime within
31 the meaning of Section 6 of Article XIII B of the California
32 Constitution.

33 SEC. 5. *This act is an urgency statute necessary for the*
34 *immediate preservation of the public peace, health, or safety within*
35 *the meaning of Article IV of the Constitution and shall go into*
36 *immediate effect. The facts constituting the necessity are:*

37 *In order to protect the health and safety of Californians and*
38 *ensure that these facilities fully comply with the reporting*

- 1 *requirements that go into effect on July 1, 2012, it is necessary for*
- 2 *this act to take effect immediately.*

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